

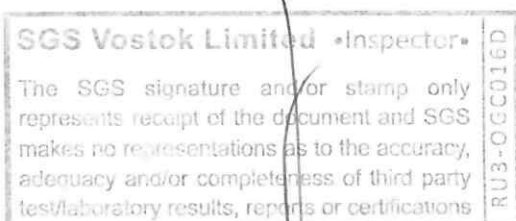
Port of Tuapse, 24.05.2017

## CERTIFICATE OF QUALITY No. 17220/11

Motor tanker: **ACQUAVIVA**  
Bill of Lading No.: **17220/11** dated **24.05.2017**  
Samples submitted as: **GASOIL**  
Quantity: **31 007 882** kilos  
Received: **Drawn by Tuapse Oil Installation Inspector**  
Marked: **Multiple composite sample**  
Sealed: **Seals of Tuapse Oil Installation**  
Shipper: **ROSNEFT OIL COMPANY, 115035, RUSSIA,  
MOSCOW, SOFIYSKAYA NABEREZHNYAYA, 26/1**

TEST	RESULT
1. Density at 15 dgrs.C	0,8426
2. Density at 20 dgrs.C	0,8393
3. Cetan number	52,5
4. Distillation:	
50% distilled at temperature, dgrs.C	276
95% distilled at temperature, dgrs.C	368
5. Kinematic viscosity at 20 dgrs.C, mm <sup>2</sup> /s	5,064
6. Acid number, mg KOH/100cm <sup>3</sup> fuel	3,82
7. Ash content, %	0,006
8. Sulphur content, %	0,585
including mercaptan sulphur, %	0,0196
9. Hydrogen sulphide content	NIL
10. Copper strip test	PASSED
11. Color, in terms of CNT	0,5
12. Sediments	NIL
13. Water content	NIL
14. Water soluble acids and alkalines	NIL
15. Pour point, dgrs.C	-15
16. Cloud point, dgrs.C	-4
17. Flash point in closed cup, dgrs.C	74
18. Iodine number, g iodine/100g fuel	0,95
19. Actual gums content, mg/100cm <sup>3</sup> fuel	6,0
20. Coking capacity of 10% carbon residue, %	0,03
21. Filtration index	1,1

It is hereby certified that the quality of goods mentioned in this Certificate of Quality is in conformity with the Russian standards and specifications, and goods may be exported.



TUAPSE

24 мая 2017

Tuapse Oil Installation Laboratory

